



THE SMITHSON
COMPANY, INC.

MATERIAL SAFETY DATA SHEET

MSDS DATE: 06/27/16

SECTION 1: Product and Company Identification

PRODUCT NAME: PolyBench, size variations

CONSTRUCTION: EPS Expanded Polystyrene coated w/ waterproof membrane and acrylic polymer finish

MANUFACTURER: The Smithson Company

ADDRESS: 125 S. State Rd. 7, Suite 104-174, Wellington, FL 33414

PHONE: 561-312-4088

PREPARATION DATE: 6/27/16

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

EXPANDED POLYSTYRENE (EPS FOAM)

<u>Ingredient</u>	<u>Case No.</u>	<u>% Vol</u>
Polystyrene Foam	9003-53-6	98% MIN
Pentane Isomers	109-66-0	Less than 2%

WATERPROOF MEMBRANE

<u>Ingredient</u>	<u>Case No.</u>	<u>% Vol</u>	<u>ACGIH-TLV</u>	<u>OSHA PEL</u>
Propylene Glycol	107-21-1	6%	125	NE
N 404 D		.06%	N/A	-
Nuscept 95		.12%	N/A	-
Titanium Dioxide	13463-67-7	10+%	NE	NE
Water	7732-18-5	52-56%	NE	NE
Acrylic Polymer	N/A	15-16%	NE	NE
Silicates	NE	10-12%	NE	NE
Zinc Oxide	1314-13-2	.2-4.5%	10	10

ACRYLIC POLYMER FINISH

<u>Ingredient</u>	<u>Case No.</u>	<u>% Vol</u>	<u>ACGIH-TLV</u>	<u>OSHA PEL</u>
Sand (encapsulated)	14808-60-7	62-66%	10	15
Water	7732-18-5	12-15%	NE	NE
Acrylic Polymer	N/A	9-10%	NE	NE
Titanium Dioxide	13463-67-7	1-5.5%	5	NE

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SECTION 3: HAZARDS IDENTIFICATION

ACUTE EFFECTS:

Eye: Residual amounts of dust or small particulates may cause eye irritation.
Skin: Residual amounts of dust or small particulates may cause skin irritation.
Inhalation: Dust may cause irritation of the nose and throat.
Ingestion: Not expected to be an ingestion hazard in normal use.

CHRONIC EFFECTS:

None known.

EXPOSURE GUIDELINES:

Nuisance Dust (Total): OSHA – 15 mg/m³ TWA

SECTION 4: FIRST AID

ACUTE EFFECTS:

Eyes: Flush with plenty of water. Remove larger particulates from the eye.
Skin: Wash thoroughly with soap and water.
Inhalation: Remove victim to fresh air.
Ingestion: If more than a mouthful is swallowed, give 1 to 2 glasses of water.
Seek medical attention.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:

Exposure to dust may aggravate respiratory conditions.

CARCINOGENICITY:

OSHA: N/A ACGIH: N/A NTP: N/A IARC: N/A Other: N/A

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SECTION 5: FIRE AND EXPLOSION DATA

FLAMMABLE LIMITS IN AIR (% By Volume) **UPPER:** N/A **LOWER:** N/A

AUTO-IGNITION TEMPERATURE:

EXPANDED POLYSTYRENE 800° F	WATERPROOF MEMBRANE Non-combustible	ACRYLIC POLYMER FINISH Non-combustible
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CLASSIFICATION USED: ASTM D1929

EXTINGUISHING MEDIA: Water Fog, Carbon Dioxide, Dry Chemical, Foam

SPECIAL FIRE FIGHTING PROCEDURES: Wear positive-pressure, self-contained breathing apparatus (SCBA) and protective firefighting clothing (includes firefighting helmet, coat, pants, boots and gloves). Once ignited this product will burn, emitting a dense black smoke. Highly toxic fumes are released in fire situations. **Protect the environment:** Keep out of the sewers and bodies of water. Fire water run-off may be toxic.

HAARDOUS DECOMPOSITION PRODUCTS:

Expanded Polystyrene: Carbon Monoxide, Carbon Dioxide, Carbon, Water, Hydrogen Halide

Waterproof Membrane: None

Acrylic Polymer Finish: None

SECTION 6: HANDLING AND STORAGE

HANDLING AND STORAGE: This product should only be shipped, stored or in ventable spaces. Store and use away from sparks and open flame.

WASTE DISPOSAL: Treat as normal refuse in accordance with local, State, and Federal regulations.

SECTION 7: PERSONAL PROTECTION / EXPOSURE CONTROLS

RESPIRATORY PROTECTION: None required under normal use.

EYE PROTECTION: Safety glasses with side shields.

SKIN PROTECTION: Butyl, nitrile, or latex rubber gloves.

ENGINEERING CONTROLS: General ventilation.

ADDITIONAL PROTECTION: Eyewash station and safety shower.

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SECTION 8: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE/ODOR:

EXPANDED POLYSTYRENE

White solid, slight hydrocarbon odor.

WATERPROOF MEMBRANE

Thin, milky, batter-like mixture

ACRYLIC POLYMER FINISH

Thin, milky, batter-like mixture

SPECIFIC GRAVITY:

EXPANDED POLYSTYRENE

<1.0 (H₂O=1)

WATERPROOF MEMBRANE

1.31

ACRYLIC POLYMER FINISH

1.31

VAPOR PRESSURE: Negligible.

VAPOR DENSITY:

EXPANDED POLYSTYRENE

Not determined (air=1)

WATERPROOF MEMBRANE

Heavier than air

ACRYLIC POLYMER FINISH

Heavier than air

BOILING POINT (° F):

EXPANDED POLYSTYRENE

Not applicable.

WATERPROOF MEMBRANE

Over 200° F

ACRYLIC POLYMER FINISH

Over 200° F

SOLUBILITY IN WATER:

EXPANDED POLYSTYRENE

Negligible.

WATERPROOF MEMBRANE

Dilutable

ACRYLIC POLYMER FINISH

Dilutable

SECTION 9: STABILITY AND REACTIVITY

CHEMICAL STABILITY: Stable.

CONDITIONS TO AVOID: Heat, sparks, and open flame.

INCOMPATIBILITY: Aromatic solvents, strong oxidizing agents.

HAZARDOUS POLYMERIZATION: Will not occur.

SECTION 10: TOXICOLOGICAL INFORMATION

ACUTE TOXICITY:

LD50 rat (oral) Not available.

LD50 rabbit (dermal) Not available.

LC50 rat (inhalation) Not available.

CARCINOGENICITY: No component listed under IARC, NTP, or OSHA.

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SECTION 11: ECOLOGICAL INFORMATION

ECOTOXICITY: No data available.

BIODEGRADATION: No data available.

SECTION 12: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: Do not dump into any sewers, on the ground, or into any body of water. All disposal methods must be in compliance with Federal, State/Provincial, and local regulations.

SECTION 13: TRANSPORT INFORMATION

U.S. DEPARTMENT OF TRANSPORTATION

HAZARD CLASS: This product is not regulated by D.O.T. when shipped domestically by land.

SECTION 14: REGULATORY INFORMATION

USA REGULATIONS

TSCA: All components of this product are listed on, or are exempt from the TSCA inventory.

SARA 311/312: None reportable.

SARA 313: None reportable.

STATE RIGHT-TO-KNOW: To the best of our knowledge, this product contains no chemical known to the State of California to cause cancer, birth defects, or other reproductive harm. (California Health and Safety Code Section 25249.6).

SECTION 15: OTHER INFORMATION

NPCA/HMIS RATINGS

Health:	1
Flammability:	1
Reactivity:	0
Personal Protection:	-

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WARNING

EPS FOAM IS FLAMMABLE. MODIFIED EPS LIKE MOST PLASTIC FOAMS IS FLAMMABLE. DO NOT EXPOSE EPS TO OPEN FLAMES OR OTHER DIRECT OR INDIRECT HIGH TEMPERATURE IGNITION SOURCES SUCH AS BURNING OPERATIONS, WELDING, BURNING CIGARETTES, SPACE HEATERS OR NAKED LIGHTS. WHEN BURNING, EPS WILL CONSUME OXYGEN, RELEASING GREAT HEAT AND SMOKE AND POTENTIALLY TOXIC GASES SUCH AS CARBON MONOXIDE AND CARBON DIOXIDE. DO NOT USE, INSTALL OR STORE EPS EXCEPT IN STRICT COMPLIANCE WITH BOCA, ICBO OR SBCCI CODES, AS WELL AS ANY FIRE-RELATED LAWS/ORDINANCES. FAILURE TO COMPLY WITH THESE CODES/LAWS MAY INCREASE THE RISK OF FIRE AND RESULT IN PERSONAL INJURY OR PROPERTY DAMAGE FROM SMOKE, FLAMES OR WATER.

The data in this Material Safety Data Sheet is offered for your consideration, investigation and verification. The data is presented in good faith and was obtained from sources Smithson believes to be reliable. Smithson, however, makes no representation as to the completeness or accuracy. Smithson makes no warranty, express or implied, with respect to the data contained herein.

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